

M2 ENTERPRISES
PRESENTS OUR
VHF-UHF
ANTENNAS

LEADING EDGE DESIGNS

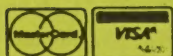
3 DECADES OF EXPERIENCE

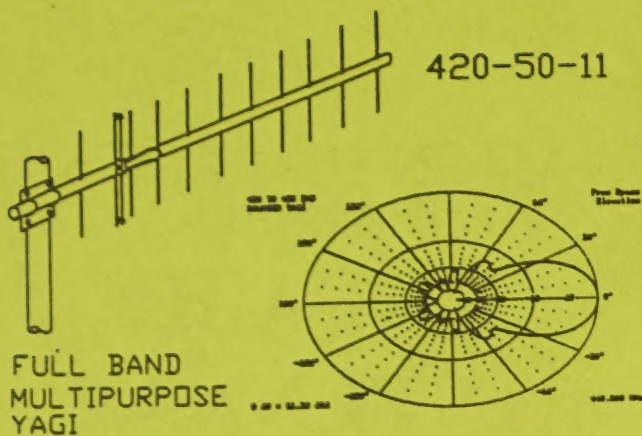
FEATURING

CUSTOM TUNING
EASY ASSEMBLY
RUGGED DESIGNS
TECHNICAL BACKUP

M2 ENTERPRISES
7560 N. Del Mar
Fresno, CA 93711-6856

(209) 432-8873 FAX (209) 432-3059





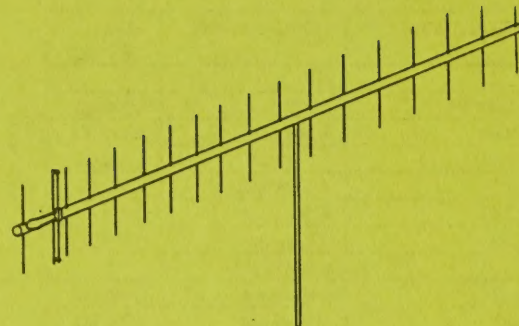
420-50-11
FULL BAND MULTIPURPOSE YAGI

SPECIFICATIONS

Model Number	420-50-11
Frequency Range	420 to 450 mHz
Gain over a dipole	11.3
Front to back	20 db
VSWR	1.2:1 Typical
Beamwidth E and H plane	34-E 43-H
Stacking Distance	28 inches
Feed Impedance/Conn.	50 Ohms/'N' Female
Power Handling	800 Watts
Wind Survival	0.5 SQ. FT.
Boom Length	60 inches
Mast Requirements	1-1/4 to 2'
Wind Survival	100 MPH
Weight	4 lbs
Shipping Weight/Size	6 lbs/2X4.5X 60.5"UPS ok

FEATURES

The 420-50-11 has been computer designed to cover the entire amateur 70 CM band. It is ideal for repeater linking or any point to point application. Comparing it to a common reference, the KLM 420-450-11, it has the same usable bandwidth with a full one dB more gain and the pattern is much cleaner. Clean patterns in most applications provide more reliable communications with less intermod. An optional stacking harness is available when more than one antenna is required for reduced beamwidth or additional gain. Because the antenna covers the whole band, many users find it a natural for ATV and general repeater use as well. Users are surprised by the performance of this small but potent little antenna!



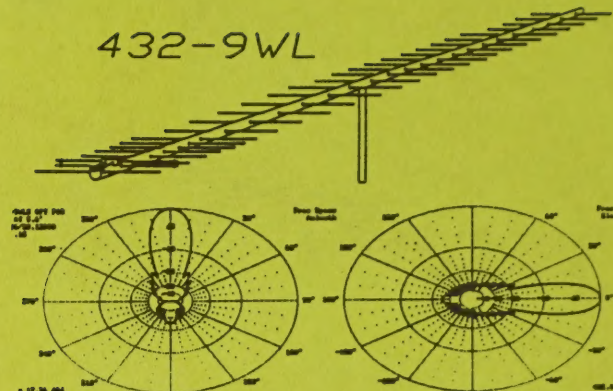
440-18
BROADBAND MULTI-PURPOSE YAGI

SPECIFICATIONS

Model number	440-18
Frequency range	420 to 453
Gain over a dipole	14.5 dBd
Front to back	23 dB typical
VSWR	1.2:1
Beamwidth E and H plane	27 to 32 degrees
Sug. stacking distance	36 to 39 inches
Input connector	'N' female
Power handling	1KW
Wind area	.875 sq. ft.
Boom length	136 inches
Mast requirements	1-1/2 to 2-1/8"
Wind survival	100 mph
Weight	5 Lbs
Shipping weight/size	6 Lbs/2.25 X 4.25 X 60.5"

FEATURES

The 440-18 is a carefully computer optimized broadband yagi featuring an excellent pattern and good gain across its bandwidth. It can be mounted vertically or horizontally and is ideal for stacking two or more for additional gain. Its light weight yet sturdy construction keep the cost low and the performance high. Use it for ATV, OSCAR, FM long haul Tropo etc. We guarantee you will be impressed.



432-9WL

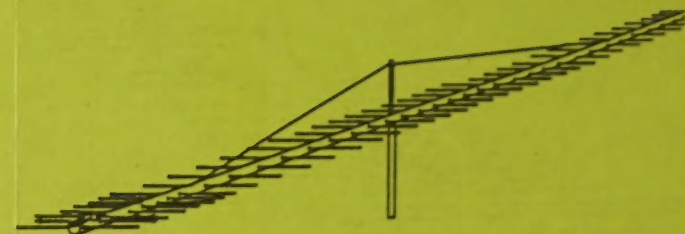
SPECIFICATIONS

Model Number	432-9WL
Usable Frequency Range	420 to 440
Gain	17.3 dBd
Front to Back	24 db
Beamwidth E and H Plane	E-20, H-22
Stacking Distance	70" Wide, 67" High
Feed Impedance/Conn	50 Ohms / 'N' Female
VSWR	1.2:1 or BTR 420-436 1 KW
Power Handling	1KW
Driven Element Type	Modified Folded Dipole
Element Type	3/16" Alum. Rod 6061-T6
Boom Length/Diameters	21 FT (252")
Mast Requirements	1-1/2 to 2-1/8" Dia
Wind Area	1.6 SQ. FT.
Wind Survival	100 MPH
Weight	7.5 lbs.
Shipping Weight	10 lbs 2X4.5X60.5" UPS ok

FEATURES

The 432-9WL is a lot of Dynamite in a small package. The Patterns above speak for themselves. The antenna has been optimized for use in an array of two or more antennas but individually it beats anything out there in both pattern and gain for its size!

Mechanically simple, the boom, 1-1/2 inches in the middle, tapers through swaged ends to 1-1/4 and then 1" Dia. tips. Polyethylene button insulators with stainless keepers secure the elements and of course all of our antennas feature the machined and 'O' ring sealed connector housing ensuring reliability through weather and time!



SPECIFICATIONS

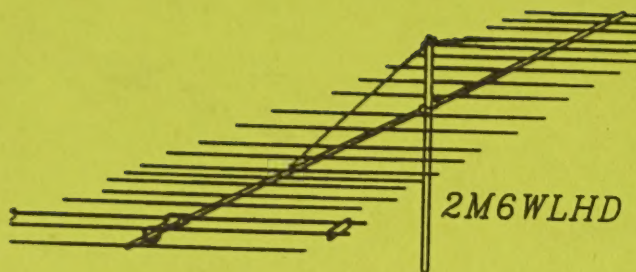
Model number	432-13WL
Frequency	420 to 450 mHz
Gain	*18.6 @ 432 mHz
Front to back	22 dB
Beamwidth E, H Plane	16 and 18 degrees
First side lobe	*-207 dB
Suggested stacking dist.	84" wide X 80" high
Feed Impedance	50 Ohms unbalanced
VSWR	1.2:1
Power handling	1000 Watts
Connector	'N' female
Driven element type	folded dipole mod.
Balun	Half wave included
Element type	3/16" alum. rod
Boom length	368", 30' 8", 13WL
Boom support	Overhead dacron
Windload	2.5 sq. ft
Mast requirements	1-1/2" to 2-1/8"
Wind survival	100 mph
Weight	12 lbs
Shipping weight	13 lbs (UPS ok)

FEATURES

The 432-13WL is designed to produce a four yagi antenna system with over 23 dBd gain. The 432-13WL is an excellent stand alone antenna and for the serious amateur it could make a sensational 16 yagi 432 array.

The driven element is a modified folded dipole with adjustment bars near the ends. The stainless set screws lock the joints together. At the center, a machined aluminum housing supports the element and seals out the outside environment from the main feedline and balun connectors. All three connectors on the block feature 'O' ring seals and thread into the main housing. The main input connector is 'N' female. Each parasitic element is a solid 3/16" rod mounted through the boom and insulated with black polythene button insulators and is locked in place with stainless keepers.

*Recently using the latest computer technology, even more gain and pattern improvement was squeezed from the 432-13WLA.



2M6WLHD

2M6WL-HD

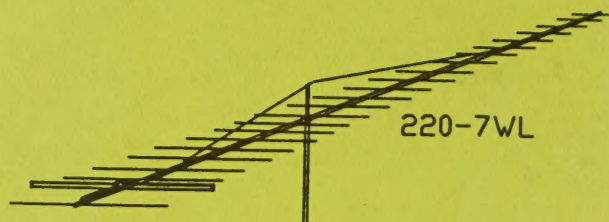
SPECIFICATIONS

MODEL NUMBER	2M6WL-HD
FREQUENCY RANGE	144 TO 148 MHZ
GAIN OVER DIPOLE	15.7
FRONT TO BACK	25 DB
BEAMWIDTH	E-25 H-29
FEED IMP./CONNECTOR	50 OHMS /N' FEMALE
VSWR	1.2:1 TYP.
POWER HANDLING	1.5 KW
BOOM LENGTH /DIA.	41' 5" / 2-1/2" MID, 2" TIPS
STACKING DISTANCE	14' HORIZ. 13.5' VERT.
DRIVEN ELEMENT TYPE	FOLDED DIPOLE, MOD.
ELEMENTS	20, 1/4" ROD & 3/8" MID.
WEIGHT	32 LBS
WIND AREA	6.5 SQ. FT.
TURNING RADIUS	22 FT.
MAST SIZE	2 TO 3"
BOOM SUPPORT	OVERHD 5/16" DACRON
SHIPPING WEIGHT/SIZE	38 LBS/6 X 6 X 126"

FEATURES

The 2M6WL-HD is a rugged, heavy duty, ultra high performance Yagi. Nothing has been spared to make this the finest antenna available. Computer designed for full bandwidth performance means excellent gain and clean pattern across the whole band.

Mechanically, the 2M6WL-HD begins with a 2-1/2" x .065 x 240" center boom section coupled to 2" x .058" tip sections. Element are 1/4" 6061-T6 rod aluminum with an additional 3/8" x 8" center sleeve. Elements are insulated from the boom with virgin polyethylene button insulators and large stainless keepers. Of course the machined driven element housing and 'O' ringed connectors are there keeping Mother Nature away for years to come. The 2M6WL-HD is in every way a premium antenna for the discriminating amateur!



220-7WL

220-7WL

SPECIFICATIONS

Model Number	220-7WL
Frequency range	220-223 Mhz
Gain	16.5 DB
Front to back	25 DB typical
Beamwidth	E-24, H-28
Feed impedance	50 Ohms, unbalanced
Input connector	'N' female
VSWR	1.2:1 or btr @ 220-223 Mhz
Power handling	1.5 KW
Baling	4:1 (Included)
Boom length	32' 6" (7 wavelength)
Boom diameter	1-1/2", 1-1/4", 1", 3/4"
Stacking distance	9' horiz., 8' 6" vertical
Driven element type	Folded dipole, modified
Parasitic elements	3/16" rod
Element count	23
Weight	13 Lbs
Wind area	2.7 Sq. Ft.
Turning radius	18' 3"
Mounting	Horizontal or vertical
Mast size	1 1/2" 2"
Boom support	18" riser and Dacron line
Shipping weight	14 lbs UPS

FEATURES

The 220-7WL is an ultra high performance 220 Mhz antenna designed to give optimum performance from 220 to 223 Mhz. All the latest computer techniques have been employed to produce an extremely clean pattern, low VSWR and high gain across the passband. Construction uses the same proven materials in most other M2 VHF and UHF antennas, light weight and low wind load yet strong enough to survive 100 mph plus.

M² ENTERPRISES PRODUCT PRICE LIST

7560 N. DEL MAR
FRESNO, CA 93711
PH (209) 432-8873 FAX (209) 432 3050

MODEL NUMBER	DESCRIPTION	SUG. RETAIL
	HF	
10-30LPY	10-30 mHz	\$899.00
20M4	4 Element	\$649.00
18M3	3 Element	\$249.00
15M4	4 Element	\$369.00
10M4	4 Element	\$169.00
10M7	7 Element	\$499.00
	6 METERS	
6M5	5 Element	\$149.00
6M7	7 Element	\$229.00
6M2WL	9 Element	\$379.00
6M2.5WL	11 Element	\$449.00
	2 METERS	
EB-144	HORIZ- OMNI	\$119.00
2M7	7 Element	\$105.00
2M12	12 Element	\$129.00
2M5WL	17 Element	\$169.00
2M18XXX	18 Element	\$219.00
2M18XXXdt	KLM Conv. Kit	\$ 69.00
2MCP14	14 Element Circ.	\$149.00
2MCP22	22 Element Circ.	\$225.00
2M6WLHD	19 Element HD	\$379.00
2M5-440XP	5 Ele /10 ELe on 440	\$149.00
	220	
220-7WL	23 Element	\$189.00
	70 CM	
EB-432	Horiz Omni	\$109.00
420-50-11	11 Ele full band	\$ 99.00
440-18	Multi- Use	\$109.00
436-30CP	30 Ele OSCAR	\$229.00
432-9WL	28 Element	\$149.00
432-13WL	39 Element	\$229.00
MT-3000	Elev. Rotor HD	\$669.00
MT-4000	Elev Rotor XHD	\$899.00
ORION	AZ Rotor XHD	\$899.00
	ACCESSORIES	
6M 2 port	2 WY 1/4 WV PD	\$ 79.00
2M 2 PORT	2 WY 1/4 WV PD	\$ 59.00
2M 4 PORT	4 WY PWR DIV	\$ 79.00
70CM 2 PORT	2 WY PWR DIV	\$ 59.00
70CM 4 PORT	4 WY PWR DIV	\$ 69.00
VHF-50	'N' CONN PH CB	\$ 39.00
UHF-50	'N' CONN PH CB	\$ 35.00

